SERVICE MANUAL

merrychef

Evolution

SERVICE MANUAL

For all Evolution models manufactured from January 2001

Part No. 32Z3382e Issue No. 3

CAUTION MICROWAVE EMISSIONS

DO NOT BECOME EXPOSED TO EMISSIONS FROM THE MICROWAVE GENERATOR OR PARTS CONDUCTING MICROWAVE ENERGY

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SAFETY CODE

This manual is designed to assist engineers who have been on a recognised product familiarisation and training course run by Merrychef Limited. It has been prepared to offer technical guidance for the Merrychef Evolution range of Combination Microwave Ovens.

Please remember that it is wiser **not** to attempt a service task if you are unsure of being able to complete it competently, quickly, and above all **safely**.

To avoid injury to yourself, and to protect the appliance from possible damage, please follow this Safety Code when servicing these ovens.

Before attempting to repair the oven, check it for microwave leakage.

Check that the oven is not emitting microwaves, even when supposedly not in operation.

Check that the oven is not operating continuously, whether the display indicates cooking or not.

Always discharge the HT capacitors before working on the oven using a suitably insulated 10 MΩ Resistor

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Before removing the rear cover from the oven, do all of the following:

- Switch off the mains supply and remove the plug from the wall socket.

or

- If the oven is hard wired, ensure that the power is turned off at the isolator switch.

Note:

The On/Off switch on the oven is **not** adequate protection against electric shock, as it does not isolate all of the internal wiring from the mains.

Upon completion of a service on a Evolution oven, or before reconnecting the appliance to the mains supply for testing, check all of the following points:

- All internal electrical connections are correct.
- All wiring insulation is correct and is not touching a sharp edge.
- All Earth connections are electrically and mechanically secure.
- All four door safety interlocks are secure and mechanically sound.
- The door operation is smooth, and the arms run freely in the slots.
- The door activates all four of the door interlock switches **in the correct order**.
- All fuse-holder safety covers are correctly fitted.
- The temperature sensor is correctly connected to the Power PCB.

Before finishing the service call, recheck the following points:

- All of the electronics are functioning correctly, and all of the touch pads are working
- The turntable is rotating freely
- The power output of the oven is correct
- Microwave emission is below permissible limit - 5 mW/cm² (see BS EN 60335-2-90:1998)
- Oven has correct 120 mm air gap all round and 100 mm above. Air flow should not be restricted

PRODUCT SPECIFICATIONS

Model Number: **EV + Voltage + Frequency + Phase + Version**

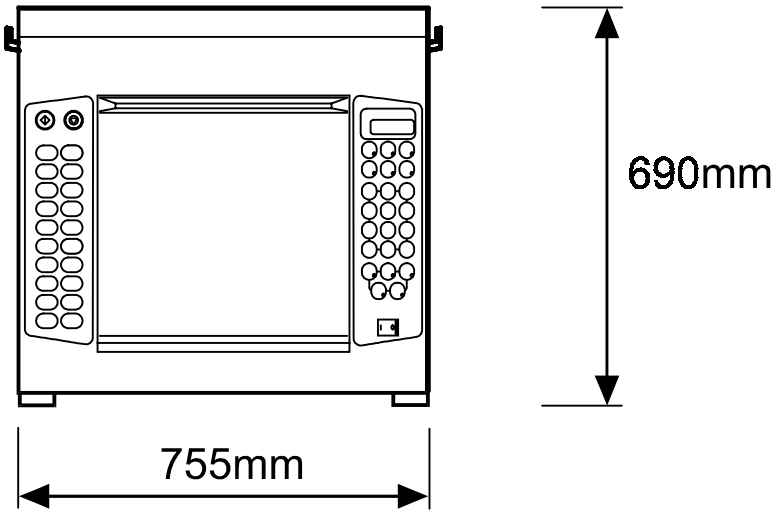
Model prefix	Voltage	Frequency	Phase	Control Type
EV	24=240V	5 = 50 Hz 6 = 60 Hz	1 = Single 2 = Twin 3= Three Phase	B

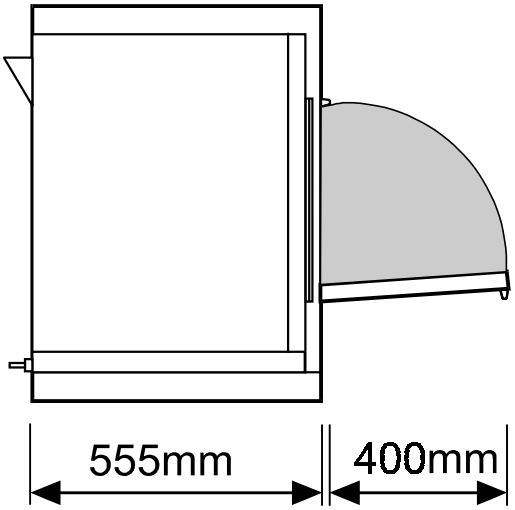
Power Requirement	Voltage Current	Microwave	Convection	Combination
Single EV2451B	240V 45A	20A	21A	41A
Twin EV2452B	P1 240V 25A	20A	1A	20A
	P2 240V 25A	0	20A	20A

Power Output	Microwave 100% Convection Heat Combination	2000 Watts (IEC 705 Rating) Single & Twin supply 1800 Watts (IEC 705 Rating) Three Phase supply 5000 Watts 2000 Watts Microwave + 5000 Watts Convection Heat
External Dimensions	Height Width Depth	700 mm (Plus 100 mm minimum clearance above = 800) 755 mm (Plus 100 mm minimum clearance each side = 955) 555 mm (Plus 100 mm clearance behind = 655)
Internal Dimensions	Height Width Depth Turntable Capacity	315 mm 330 mm 330 mm 300 mm Diameter 34.3 litres (1.21 ft^3)
Weight	Net Gross packed	82 kg 90 kg
Construction	Cavity Casework	304 Stainless Steel 304 Stainless Steel
Settings	Microwave Temperature Timer	100%,75%,50%,25%, Convection only Off, 150°, 200°, 250°, 275°,300°C Up to 30 minutes (Manual) 3 cooking stages of up to 30 minutes each (Programed)

Control System	Wipe-clean touch pad operating microprocessor based control system Single touch control of temperature Direct readout of time, power and temperature set Digital readout of cavity temperature available 100 Pre-programmed cooking sequences Built-in diagnostic messages
Safety Features	Four door interlock switches Cavity Overheat Sensor Magnetron Overheat Sensor Blocked Air Filter Sensor Automatic Lock-out on invalid time setting Convection Fan and Heater disabled when door open
Additional Features	• Easy-to-use multistage programming • Manual and Pre-programmed mode always available • Rapid cavity pre-heat • Low-loss insulated cavity and door • One-touch selection of temperature • Magnetron soft-start circuit for increased life and faster activation

DIMENSIONS AND LOCATION





CE

A sample of this product has been tested and found to be in conformity with the following directives:

Directive	Harmonised standards applied.	
EMC 89/336 EEC	EN 55011 EN 50082-1	1991 (Emissions) 1992 (Immunity)
LVD 73/23 EEC	EN 60 335-2-90	

INSTALLATION INSTRUCTIONS

Power Supply Requirements

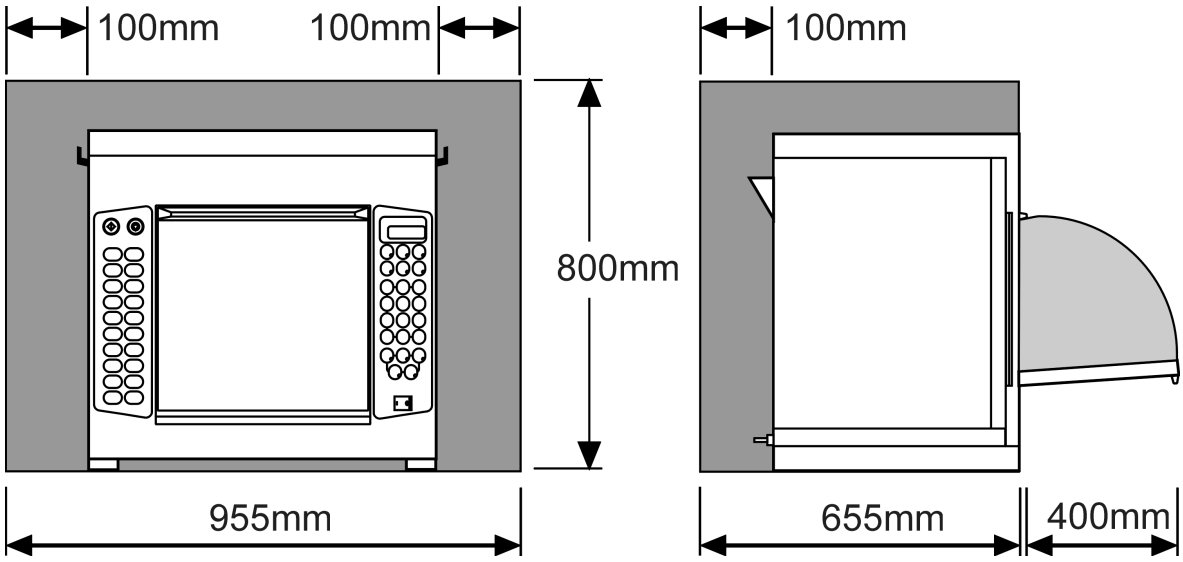
The Evolution should be connected to a suitable electricity supply, which can cope with the switching-on surge that occurs with certain types of catering equipment, such as microwaves. Because of this requirement, we strongly recommend that a separate, suitably rated supply is installed for the oven.

The supply for the oven should be fitted with a **Type "C"** circuit breaker. Please refer to rating plate for details.

If the oven is hard wired to the supply a double-pole isolator switch with a contact gap of at least 3mm should be fitted.

Positioning the Oven

In order to maintain adequate ventilation for air intake and exhaust, and to allow access for cleaning filters, you must allow a minimum of 100 mm clearance at the sides and 100 at the rear of the oven, and at least 100 mm above. Air intake temperature should not exceed 35°C - excessive temperature can lead to reduced operating duty cycle or premature ageing of internal components.

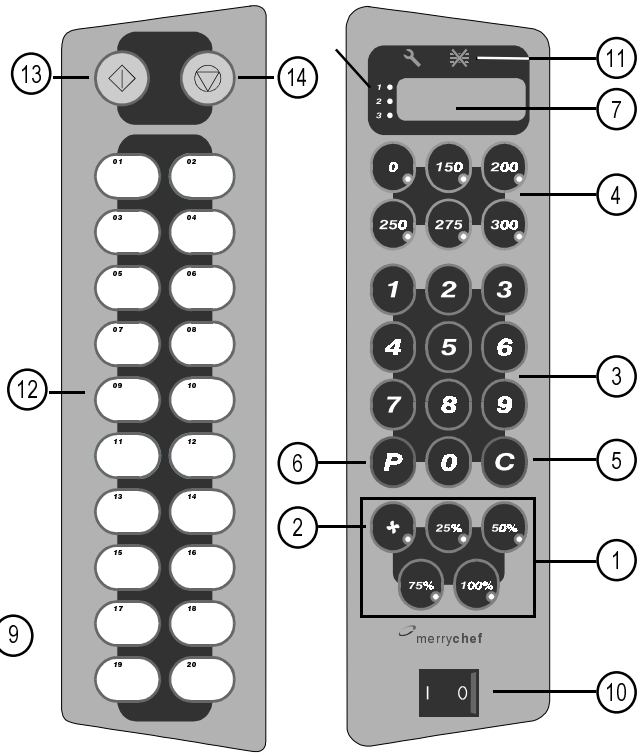


NEVER Install an oven above fryers, grills, griddles or any other major heat source.

NEVER Stack machines on top of each other - always use a double stand.

MANUAL CONTROLS

1	POWER PADS
2	CONVECTION PAD
3	TIME/PROGRAM SELECT PADS
4	TEMPERATURE SETTING PADS
5	CANCEL PAD
6	PROGRAM PAD
7	TIME AND PROGRAM DISPLAY
8	MULTI-STAGE INDICATOR
9	COLON
10	ON/OFF SWITCH
11	ERROR DISPLAY



1. POWER PADS

   There are 4 Microwave Power Pads to select from: 25%, 50%, 75%, and 100%. A light will indicate the one in use.

2. CONVECTION PAD

   This is used when foods only require browning(no microwave)
   Note: when cooking the MICROWAVE and CONVECTION pads start the cycle and timer. You may alter power levels during a manual cooking cycle. When cooking is interrupted, a light will flash as a reminder that the time is being held (see PAUSE).

3. TIME/PROGRAM SELECT PADS

   These pads are used for setting the cooking time in 1 second steps to a maximum of 30 minutes. They are also used for programs from 21-99.

4. TEMPERATURE SETTING PADS

   These pads are used to set the convection temperature. A light will indicate the temperature set. Selecting the '**0**' key will switch convection off. If a temperature key is pressed and held the current oven temperature will be displayed in the time display window.

   below 100ºC 100C-125ºC above 125ºC

5. CANCEL/ CALLBACK 'C' PAD

   Cancels all timed cooking cycles, pre-programmed operations and stop the microwave energy. It does not alter the oven temperature . If the oven is hot food will continue to cook and should be removed from the oven immediately. This pad will also cancel any incorrect operations. It will not erase programs. It can also be used to view the details of stored programs.
   (see CALL BACK)

6. PROGRAM 'P' PAD

   Activate or set program

7. TIME AND PROGRAM DISPLAY

   Shows the time set in minutes and seconds and counts down in 1 second steps during a cooking cycle.
   Also displays error messages and oven temperature. (PROBLEM SOLVING section 8)
   The program display indicates the program number selected. 'PP' indicates programming

8. MULTI-STAGE INDICATOR

   Indicates stage in multi-stage cooking

9. COLON

   When programming the colon will flash to indicate the time may now be entered.

10. ON/OFF SWITCH

11. ERROR DISPLAY See PROBLEM SOLVING Section 8.

12. QUICK ACCESS PADS

    For programs 01-20

13. START

    Starts a quick access program

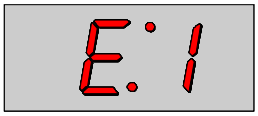
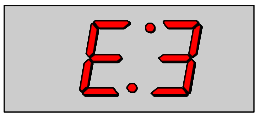
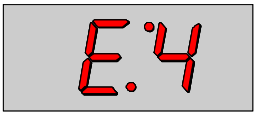
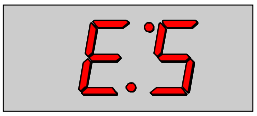
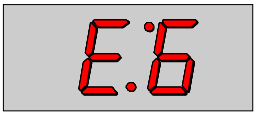
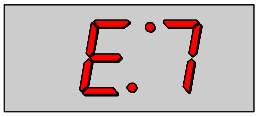
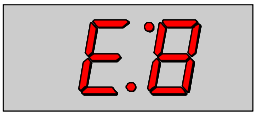
14. STOP

    Stops a quick access program

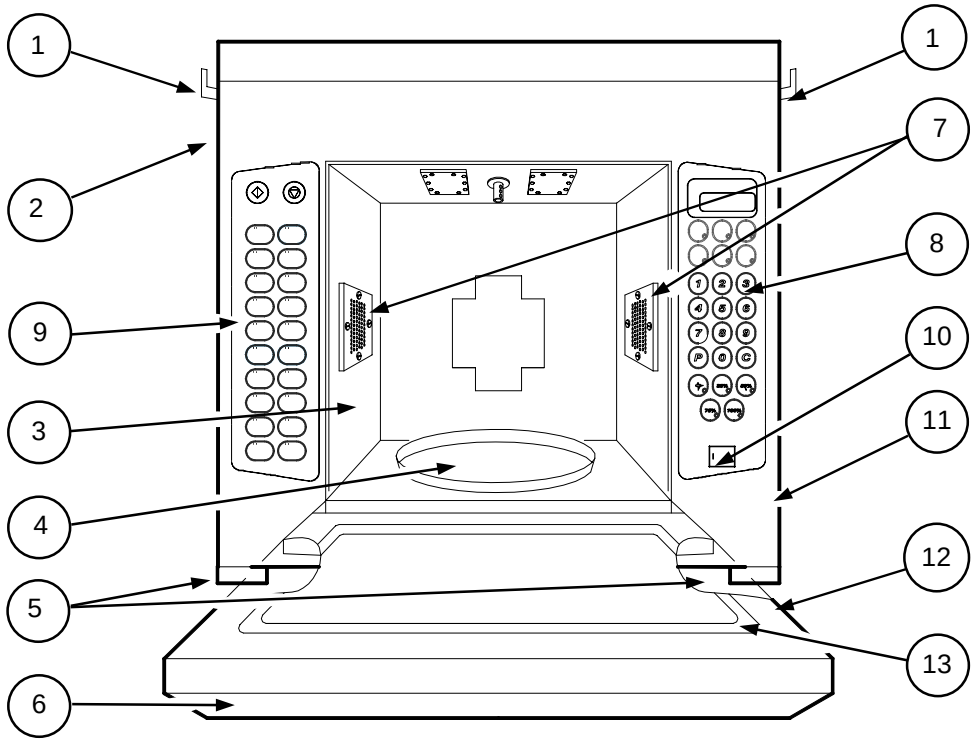
Error Codes and Diagnostics

The Evolution will identify some of the most common problems by flashing an error message code in the time display window. (See also Error Light Operation page 17).

These are the error messages and suggestions for repairing them.

	1 2	Door not fully shut. Possible electrical fault	Close door fully. Door switch inoperative.
	1 2 3	No time has been set. Invalid time has been set. Invalid program has been set.	Set a time. Set a valid time. Use call-back to check program.
	1 2 3	Oven not heating up. Possible Heater fault. Possible Sensor fault.	Check heater fuse. Confirm operation of heater circuit. (RS units) Check slave heater relay and second supply.
	1	Oven Cavity overheating.	Confirm heater relay is operating. (RS units) Check slave heater relay .
	1	Oven is not at correct temperature to start program.	Remove food. Allow oven to reach correct temperature. **Operator Error !!**
	1	Left Hand Magnetron overheating.	Check air filters. Check location, air inlet temperature and air filters. Note : this will lead to condition shown below. See Page 18
	1	Right Hand Magnetron overheating	Check air filters. Check location, air inlet temperature and air filters. Note : this will lead to condition shown below. See Page 18
	1 2	Magnetron has overheated but has now recovered. Internal diagnostic fault	Check that magnetron cooling fan and turntable are working correctly. Check installation, air inlet temperature and air filters. See Page 18
	1	Oven control area is overheating.	Check air filters. Check axial fan. Check installation for hot air intake.

MAIN FEATURES



1. TRAY HANDLE REST

   There is one on each side of the oven for convenient storage of the tray handle. The handle may be used to remove hot trays and the rotating cooking carousel from the oven.

2. AIR OUTLETS

   These vents on the rear panel enable air which has been used to cool internal components to escape. It will not allow microwave energy to escape into the environment. They must be kept free from obstruction.

3. OVEN CAVITY

   The cavity is constructed mainly from stainless steel and vitreous enamelled panel on the door. It must be kept clean Section 7 CLEANING).

4. COOKING CAROUSEL TRAY AND DISC

   The cooking carousel disc is placed on the spindle in the centre of the oven floor. The cooking carousel tray fits on top of the disc. These rotate when the oven is switched on and stop when the door is opened.

5. AIR INLET FILTERS (LEFT & RIGHT)

   Situated at the left and right hand side of the base at the front. These are part of the ventilation system and must be kept free of obstruction and cleaned on a daily basis.

6. DOOR HANDLE

   This is a rigid bar which is pulled downwards and towards you to open

7. GREASE FILTERS (LEFT & RIGHT)

8. MANUAL CONTROLS (See page 11)

9. QUICK ACCESS KEYS

10. ON/OFF SWITCH

    When switched ON, the control will light. The fan and ventilation system will also operate and the rotating cooking carousel will rotate.

11. RATING PLATE

    Found on the rear panel, this states the serial number, model type, electrical specifications and manufacturer's address and telephone number.

12. DOOR

    This is a precision-made energy barrier with three microwave safety interlocks. It must be kept clean (see CLEANING section). The door should NOT be used to support heavy dishes.

13. DOOR SEALS

    These ensure a tight seal around the door. They should be kept clean and checked regularly for signs of damage. At the first sign of wear they should be replaced by a Merrychef approved engineer.

Procedure A - Power Output Test in accordance with BS EN 60335-2-25:1996 Annex AA

This test is given in the BSI test standard for microwave ovens. It is reproduced below - not so that you can follow it, but to show you why it is impractical in normal conditions. A simplified procedure, which gives a good approximation to the BSI power output, is given in Procedure B which follows.

Note: This test can only be carried out on a **COLD** oven. If the oven has been operating, even for only a few seconds, the power given will be lower than the oven rating. This test must also be carried out at a stable voltage - the voltage in most kitchens varies considerably even within the period of the test. If the oven has been operating, go to **Procedure B.**

You will need:

A thermometer capable of reading to ±0.1°C.
A cylindrical borosilicate glass container, 190 mm diameter, with a wall thickness of 3 mm or less.
A calculator.
A set of scales capable of reading 1 kg to an accuracy of ± 1 g.
A glass or plastic stirrer.
A jug capable of holding over 1 litre of water.

WARNING: *The Borosilicate Glass container has thin walls and is therefore fragile - take care not to break it during use.*

Method:

A cylindrical container of borosilicate glass is used for the test. It has a maximum thickness of 3 mm, an external diameter of approximately 190 mm and a height of approximately 90 mm. The mass of the container is determined.

At the start of the test, the oven and the empty container are at ambient temperature. Potable water having an initial temperature of 10°C ± 1°C is used for the test. The temperature of the water is measured immediately before it is poured into the container.

A quantity of 1000 g ± 5 g of water is added to the container and its actual mass obtained. The container is then immediately placed in the middle of the oven shelf which is in its lowest normal position. The appliance is supplied at rated voltage and operated at the maximum power setting. The time for the water temperature to attain 20°C ± 2°C is measured. The oven is then switched off and the final water temperature is measured within 60s.

Notes:
1. The water is stirred before its temperature is measured.
2. Stirring and measuring devices are to have a low heat capacity.

The microwave power output is calculated from the formula:

$$P = \frac{4.187\, M_W\, (T_2-T_1) + 0.55\, M_C\, (T_2-T_0)}{t}$$

Where
- P is the microwave power output, in watts;
- M_W is the mass of the water, in grams;
- M_C is the mass of the container, in grams;
- T_0 is the ambient temperature, in °C;
- T_1 is the initial temperature of the water, in °C;
- T_2 is the final temperature of the water, in °C;
- t is the heating time in seconds, excluding the magnetron filament heat-up time.

Procedure B - Simplified Power Test

You will need:

A thermometer capable of reading to ±0.1°C.
A Polypropylene tray approximately 200 mm x 200 mm.
A measuring jug.
A calculator.
Water which is at a temperature of 10°C ± 2°C.

1. Measure 1 litre of cold water into the tray using the measuring jug.
2. Measure the water temperature, and record it as T[s].
3. Place the tray on the turntable in the oven and close the door.
4. Turn the oven on.
5. Set the timer to 1:02.
6. Press the “100%” pad.
7. When the oven bleeps, open the door and remove the tray.
8. Stir the water thoroughly, and measure its temperature. Record this as T[e].

Calculation:

1. T[r] = T[s] - T[e].
2. Power = 70 x T[r]. Power is in Watts.

The power given by the above test should be within ±10% of the rated power.

Procedure C - Power Transformer Test

You will need:

A Digital Multi-meter (D.M.M.)
A Megger or similar resistance meter using 500V d.c.

WARNING:	High voltages and large currents are present at the secondary winding and filament winding of the Power Transformer. It is very dangerous to work near this part when the oven is on. NEVER make any voltage measurements at the High Voltage circuits, including the magnetron filament.
WARNING:	Even when the oven is not cooking, the Power Transformer has High Voltages present because of the Soft Start circuit. Isolate the oven before testing.

1. Isolate the oven from the mains supply.
2. Ensure that the High Voltage Capacitor is discharged before commencing work.
3. Remove all connections from the Power Transformer.
4. Using a D.M.M., check the resistance of the windings.

Results should be as follows:

Mains winding (between tags)	Approximately 1.1 Ω
High Voltage winding (between tag & chassis)	Approximately 60 Ω
Filament winding (between terminals)	Less than 1 Ω

5. Using a Megger, test the insulation resistance between:

Primary winding and chassis	Pass if over 10 MΩ
Filament winding and chassis	Pass if over 10 MΩ

One end of the High Voltage winding is connected to the chassis, so this is not tested.

Procedure D - High Voltage Capacitor Test

You will need:

A Digital Multi-meter (D.M.M.)
A Megger or similar resistance meter using 500V d.c.

WARNING: High voltages and large currents are present at the High Voltage Capacitor. It is very dangerous to work near this part when the oven is on. NEVER make any voltage measurements at the High Voltage circuits, including the magnetron filament .

WARNING: Even when the oven is not cooking, the High Voltage Capacitor has High Voltages present because of the Soft Start circuit. Isolate the oven before testing.

1. Isolate the oven from the mains supply.
2. Ensure that the High Voltage Capacitor is discharged before commencing work.
3. Remove all connections from the High Voltage Capacitor.
4. Using a D.M.M., check for continuity between the terminals & compare results with table.
5. Using a Megger, test the insulation resistance between the terminals and the case.

Between Terminals	Pass if approximately 10 MΩ
Between Terminals and Case	Pass if open circuit

Between Terminals and Case	Pass if over 100 MΩ

Procedure E - High Voltage Rectifier Test

You will need:

A Megger or similar resistance meter using 500V d.c.

WARNING: High voltages and large currents are present at the High Voltage Rectifier. It is very dangerous to work near this part when the oven is on. NEVER make any voltage measurements at the High Voltage circuits, including the magnetron filament .

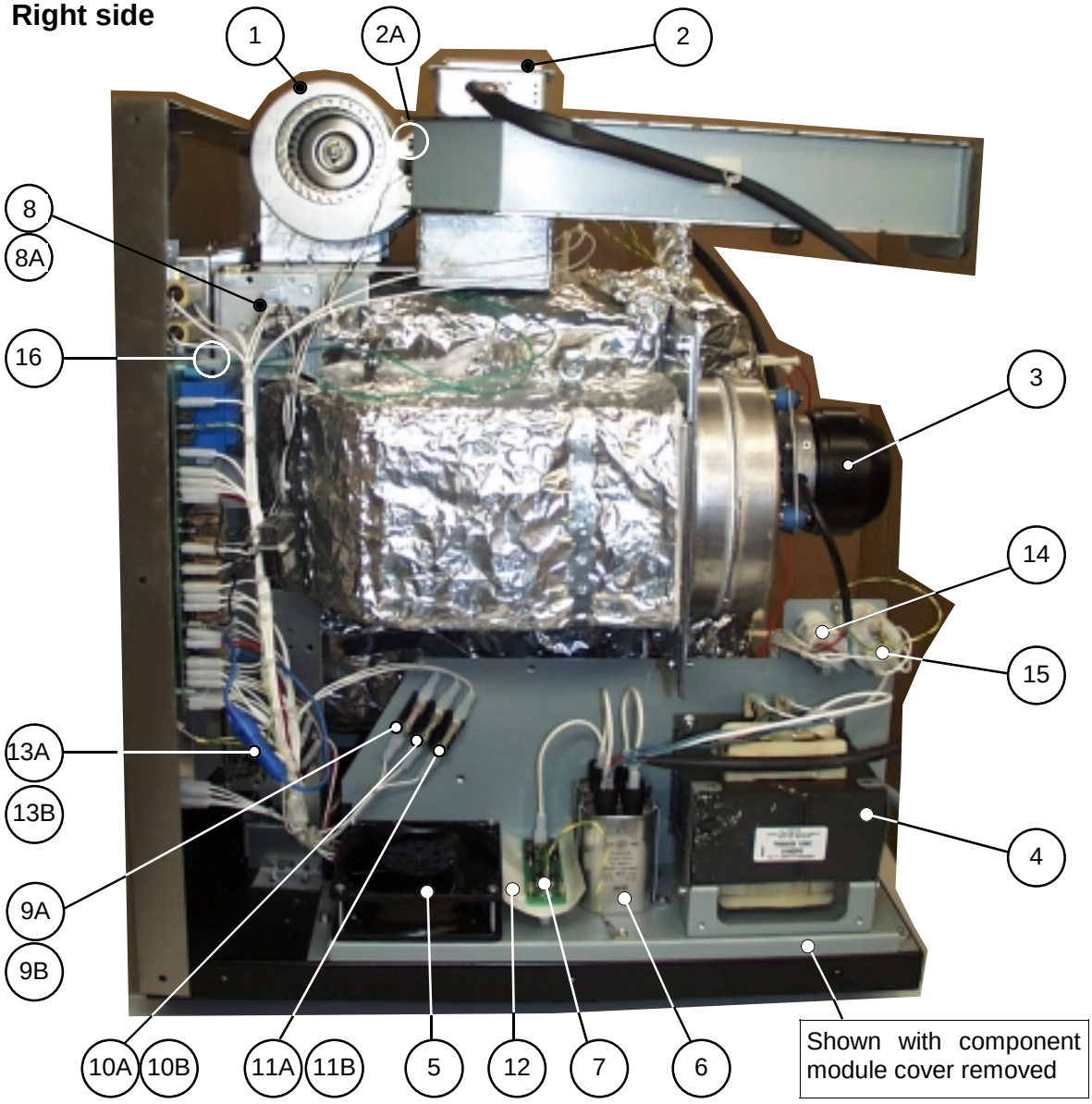
WARNING: Even when the oven is not cooking, the High Voltage Rectifier has High Voltages present because of the Soft Start circuit. Isolate the oven before testing.

1. Isolate the oven from the mains supply.
2. Ensure that the High Voltage Capacitor is discharged before commencing work.
3. Remove all connections from the High Voltage Rectifier.
4. Using the Megger, test for continuity in both directions. Compare results with following table.

Open Circuit both ways	**FAIL**
Conducts one way only	PASS
Short Circuit both ways	**FAIL**
Conducts one way, leaks the other	**FAIL**

PRINCIPAL COMPONENTS

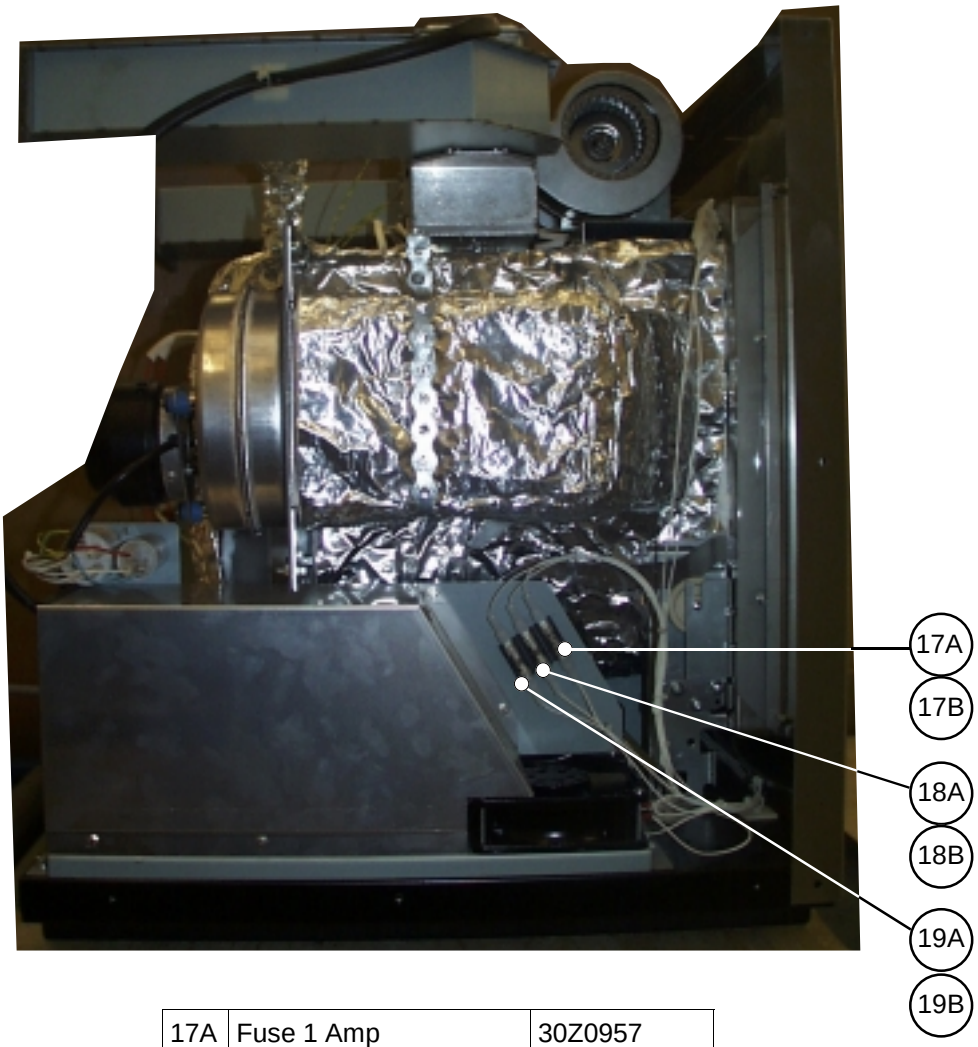
Right side



1	Magnetron cooling fan	310110
2	Magnetron	30Z0851
2A	Self Tap Screw	31Z3133
3	Hot air fan	30Z1131
4	Transformer	30Z0931
5	Axial fan	30Z0941
6	Capacitor	30Z0385
7	Diode PCB assembly	11M0325
8	Door switch assembly	11H0008
8A	Microswitch	30Z0240

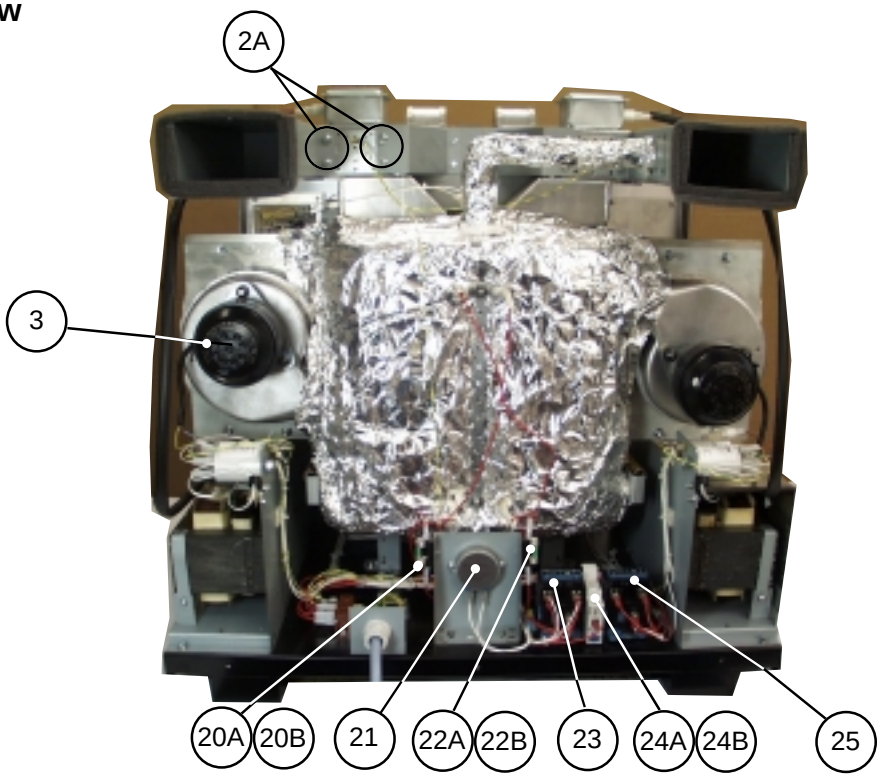
9A	Fuse 3 Amp	30Z0940
9B	Fuse Holder	30Z0231
10A	Fuse 1 Amp	30Z0957
10B	Fuse Holder	30Z0231
11A	Fuse 10 Amp	30Z0217
11B	Fuse Holder	30Z0231
12	Nomex	32Z0121
13A	Fuse 3 Amp	30Z0940
13B	In-line Fuse Holder	31Z1191
14	Fan start Capacitor	——
15	Filter	30Z0997
16	Temperature sensor	30Z1130

Left side

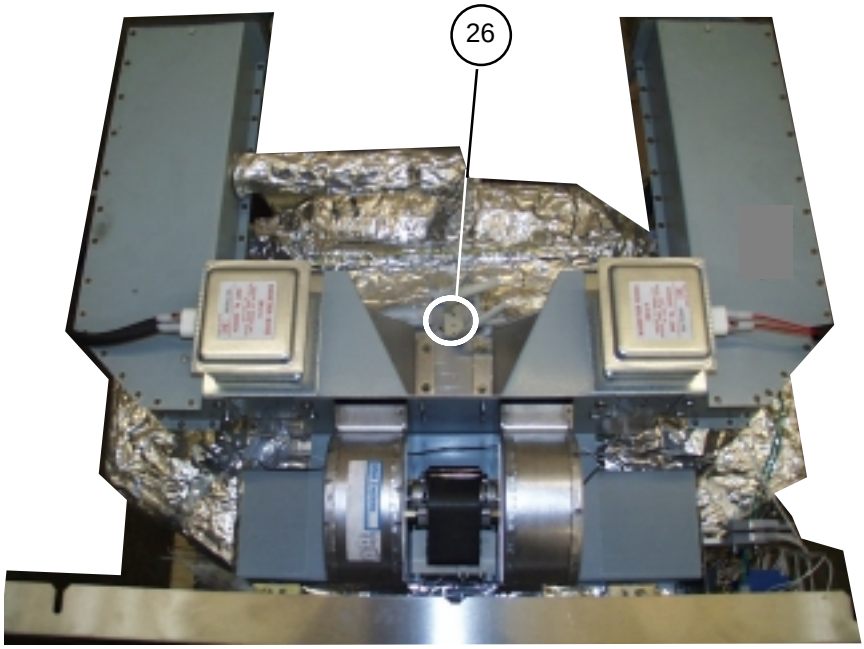


17A	Fuse 1 Amp	30Z0957
17B	Fuse Holder	30Z0231
18A	Fuse 1 Amp	30Z0957
18B	Fuse Holder	30Z0231
19A	Fuse 10 Amp	30Z0217
19B	Fuse Holder	30Z0957

Rear view



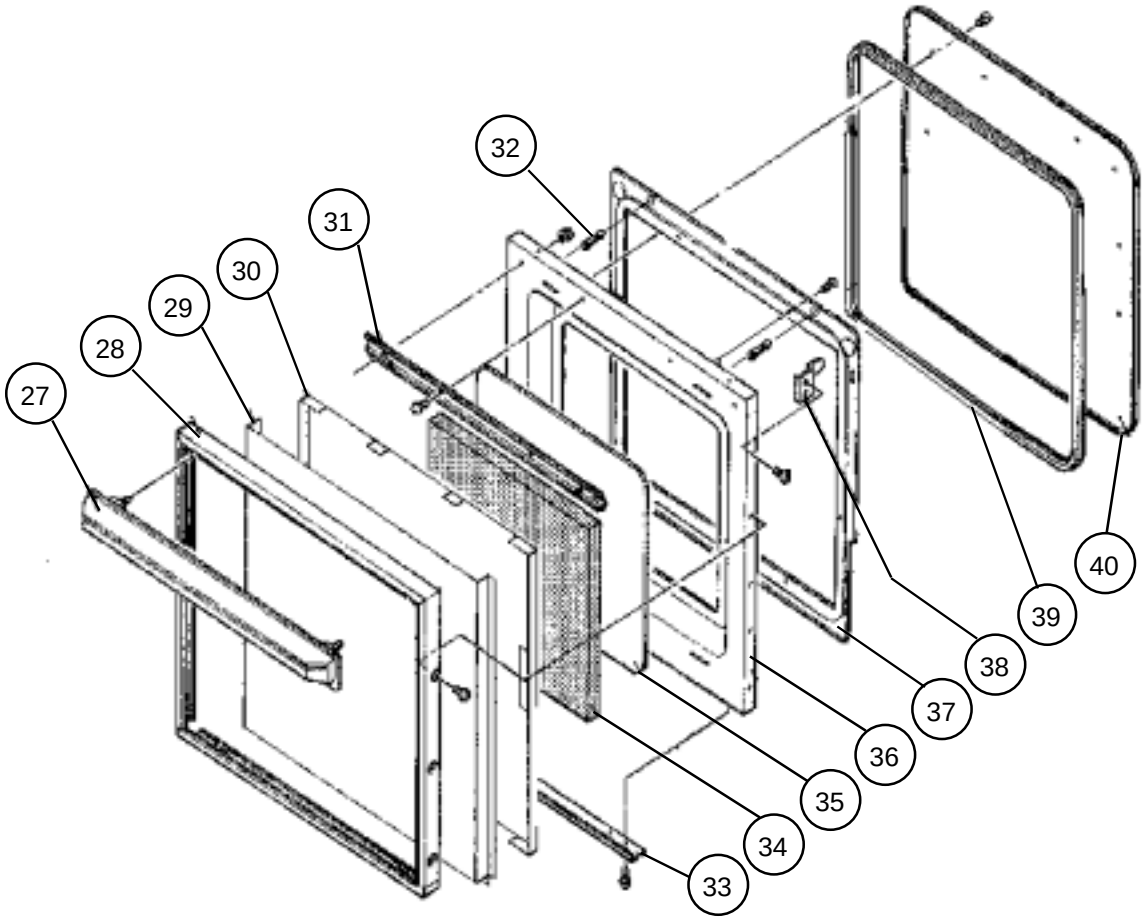
Top view



20A	Fuse 13 Amp	30Z0168
20B	Fuse Holder	30Z0231
21	Turntable motor	RMC5055EX
22A	Fuse 13 Amp	30Z0168
22B	Fuse Holder	30Z0231

23	Interlock Contactor	340504
24A	Fuse 25 Amp	31Z0473
24B	Fuse Holder	31Z0474
25	Heater Contactor	340504
26	Overheat Safety Stat	30Z1024

OVEN DOOR ASSEMBLY

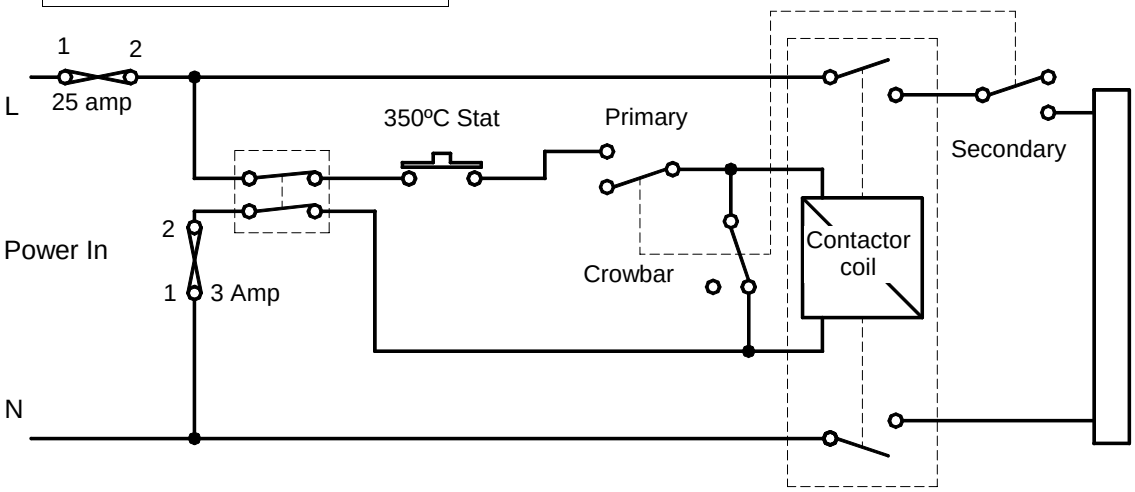


27	Black Handle	RBR12852
28	Door Frame	40H0158
29	Door Cover Outer Skin	40H0080
30	Insulation Panel	40H0081
31	Door Reinforcement	RMC70722
32	Striker Pin	31Z1214
33	Door Frame (B)	MC3055
34	Insulation Wrap	32Z0001
35	Window Screen	40H0082
36	Door Base Silver	MC3031KX04
37	Door Cover	MC3064
38	Plate - Door Switch	MC3056
39	Packing (B)	MC3065
40	Internal Centre Panel	40H0146

Door Interlock Operation

The door on the Evolution oven is monitored by four microswitches. Three of these are used in the conventional “Primary, Secondary and Monitor” switch arrangement shown below, while the fourth is a low-voltage switch linked directly to the control circuitry.

Door Interlock Arrangement



The switches operate as follows:

1 **Primary Interlock [Top Left-Hand] and Low voltage [Top Right-Hand] Switches**
Operate simultaneously. Either will cut off the microwave emissions from the oven when the door is opened: the Primary switch by breaking the mains supply circuit to the transformers, and the Low-Voltage switch by breaking the relay circuit on the Power / Relay PCB.

2 **Monitor [Bottom Outer] and Secondary Interlock [Bottom Inner] Switches.**
Operate simultaneously. The Monitor switch will produce a short circuit across the mains supply if the Primary interlock switch is faulty, thus blowing the microwave fuse and rendering the oven inoperative. The Secondary interlock switch will cut off the microwave emission if all three of the other switches have failed.

Note: If operation of the Monitor switch has caused the Microwave Fuse to blow, the Primary and Monitor microswitches must be changed, as they may have been damaged by the high short-circuit currents involved.

Error Light Operation

The “Air Filter Blocked” light and “Service” light are triggered by the internal circuitry. If the magnetron overheats, the error code “E:7” or “E:8” is displayed on the front panel, and both the “Air Filter Blocked” and the “Service” indicators will light. Once the magnetron has cooled sufficiently to allow the oven to restart, the “Service” light will remain illuminated until the oven is turned off.

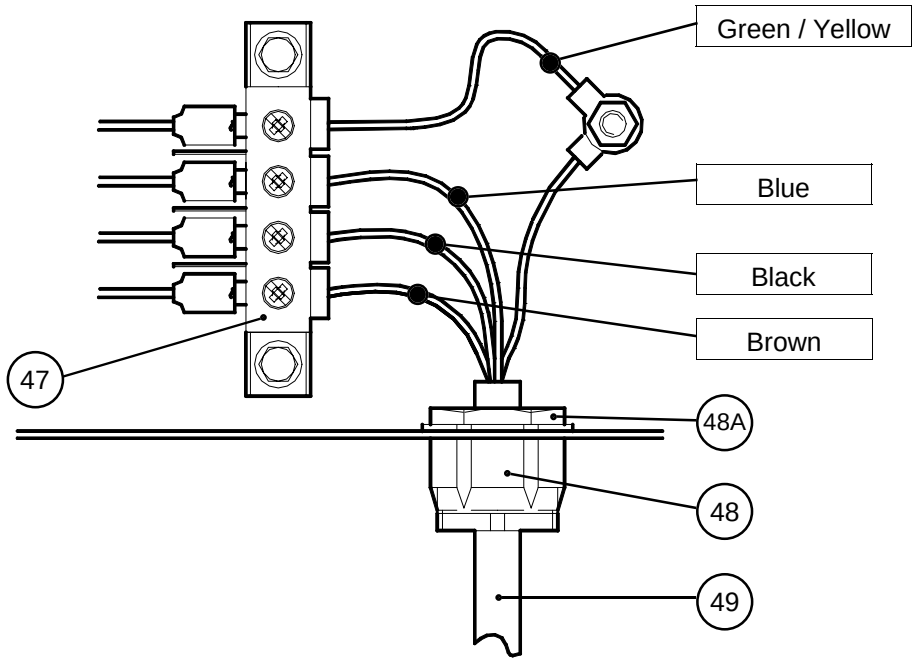
This fault may have been triggered by one of the following causes:

- Air inlet on rear of machine being obstructed.
- High air inlet temperature.
- Slow running cooling fan, jammed turntable or broken gearbox (cooling fan also drives turntable).
- Faulty magnetron overheat ‘stat or associated wiring.

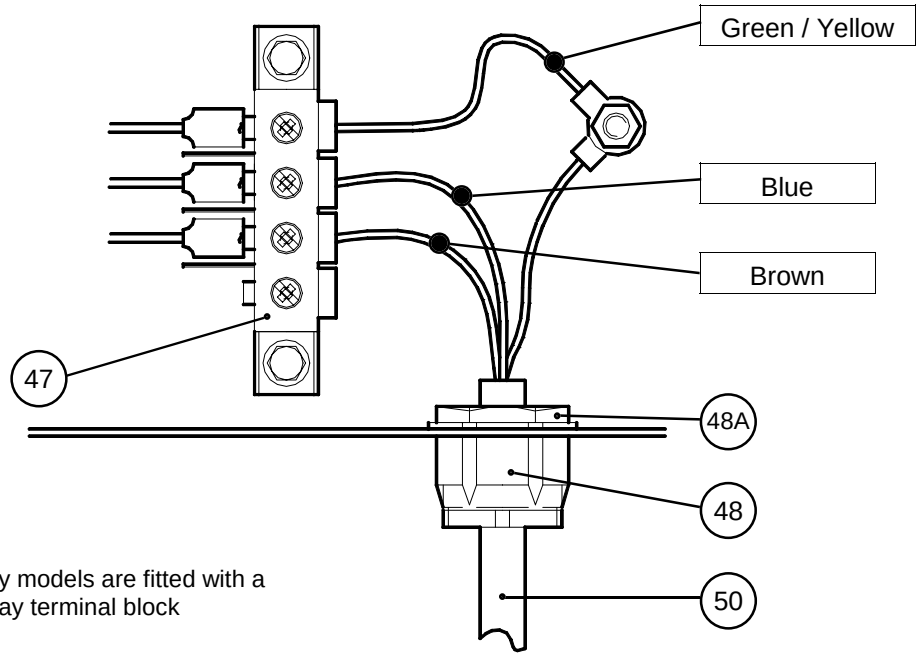
Note that the customer may not have noticed that the oven displayed “E:7” or “E:8” and so the reported fault may be misleading.

INPUT WIRING DETAILS

2-Phase, Neutral and Earth



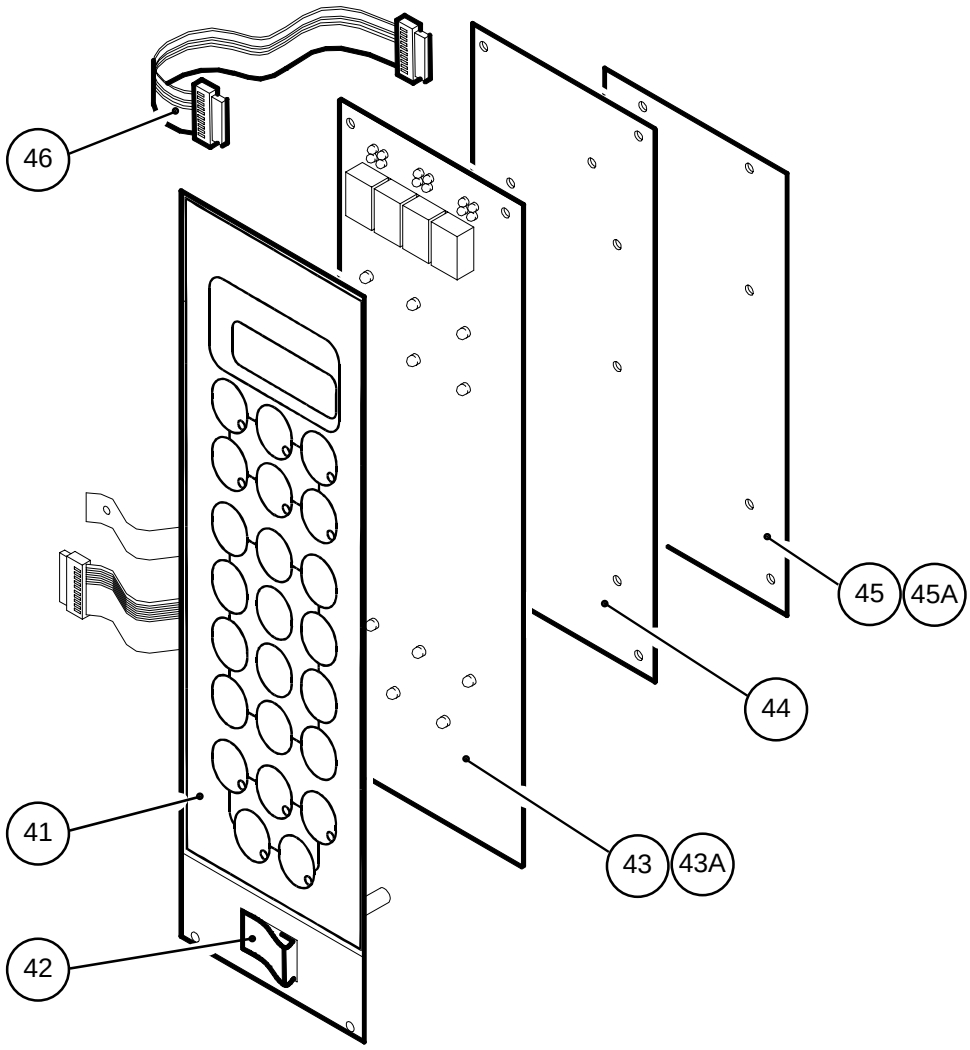
Single Phase



Note: early models are fitted with a 3-way terminal block

47	Mains Terminal Block	31Z0477
48	Cable Gland	31Z1070
48A	Gland Nut	31Z1082
49	Mains Cable 4 Core	31Z0480
50	Mains Cable 3 Core	31Z0472

Control Panel Assembly



41	Membrane Assembly	11H0048
42	On/Off Switch	30Z0503
43	Logic Assembly	11H0045
44	Support Shield	40H0075
45	Relay (PCB) Board	11H0046
46	15 Way Ribbon Connector	11Z0298

Models with Serial No.s prefix '**PEV**____' only

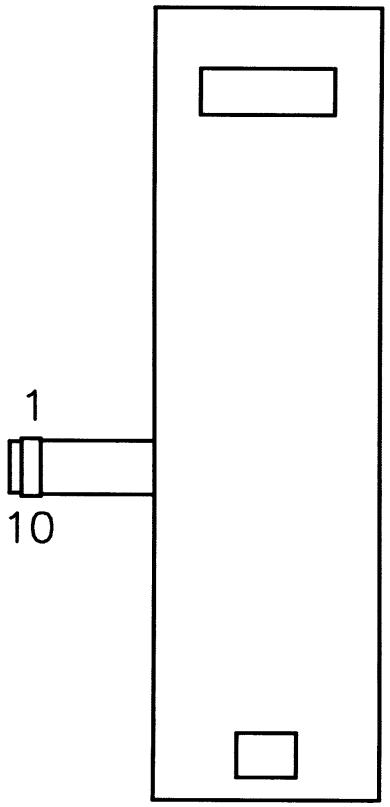
43A	Logic Assembly	11H0042
45A	Relay (PCB) Board	11H0043

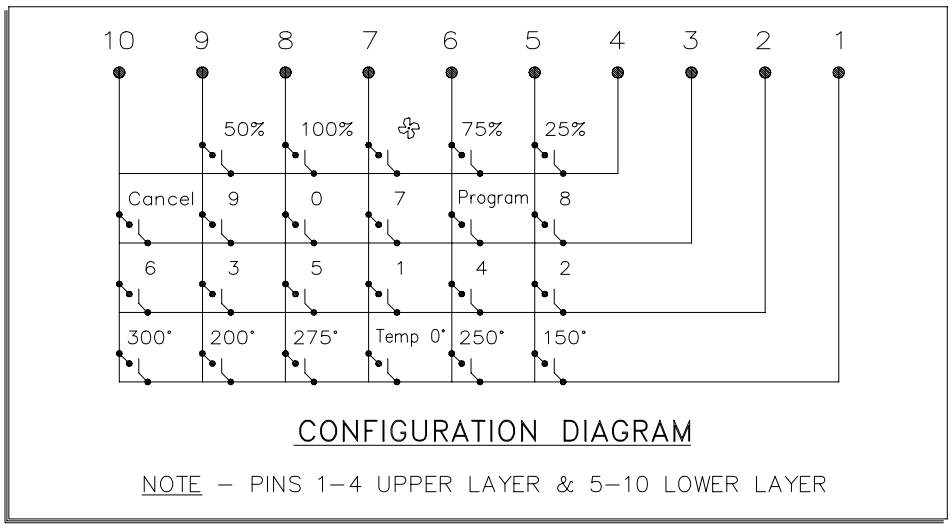
Membrane Panel Circuit

You will need:

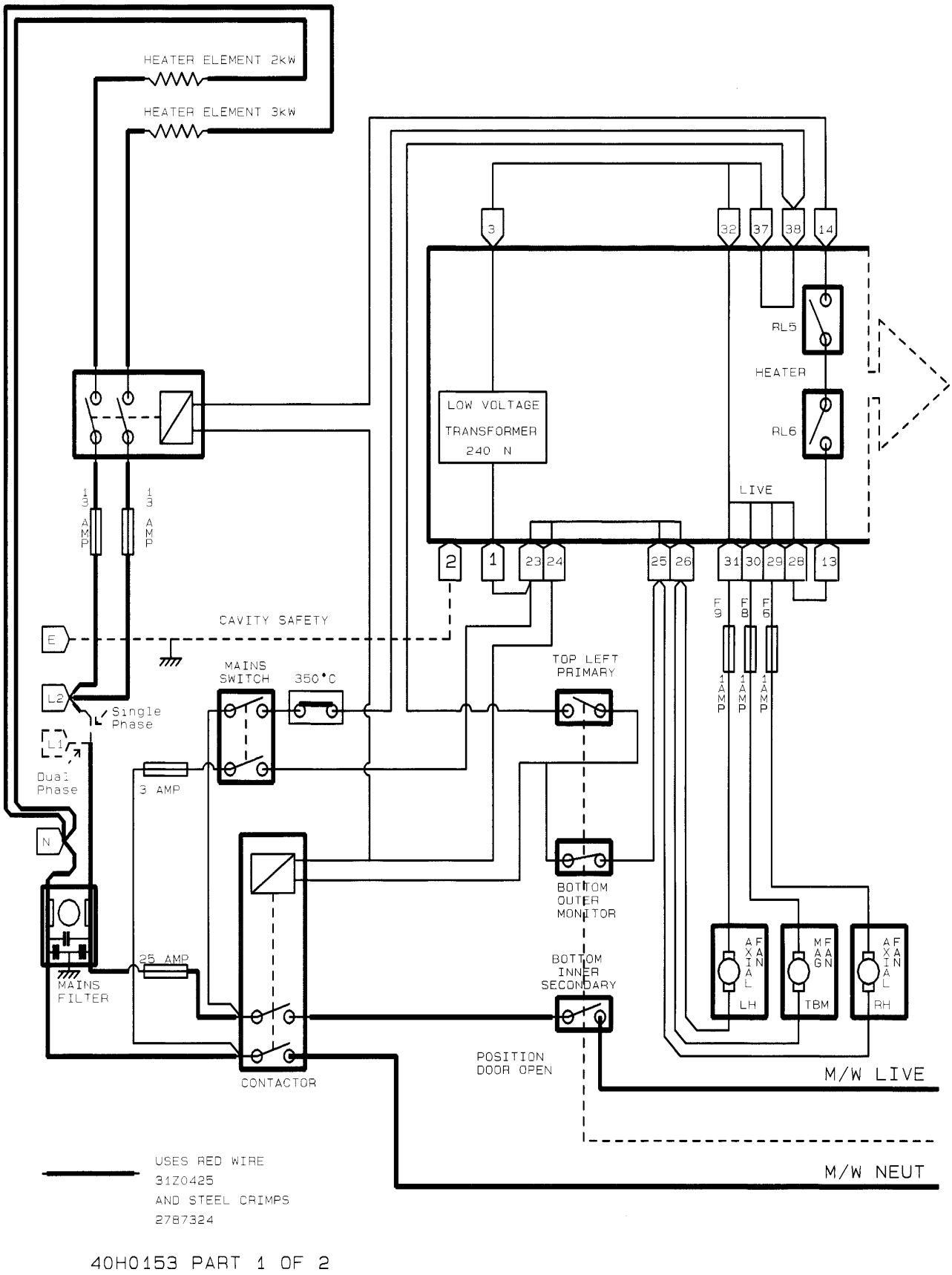
A Digital Multi-meter (D.M.M.)

1. Isolate the oven from the mains supply.
2. Remove the Logic Assembly from the Control Panel Housing.
3. Unplug the membrane “tail” from the Logic PCB Assy.
4. Using a D.M.M., check for continuity between the correct terminals when the pads are pressed.
5. When the panel has been tested, re-assemble and re-test the control housing.

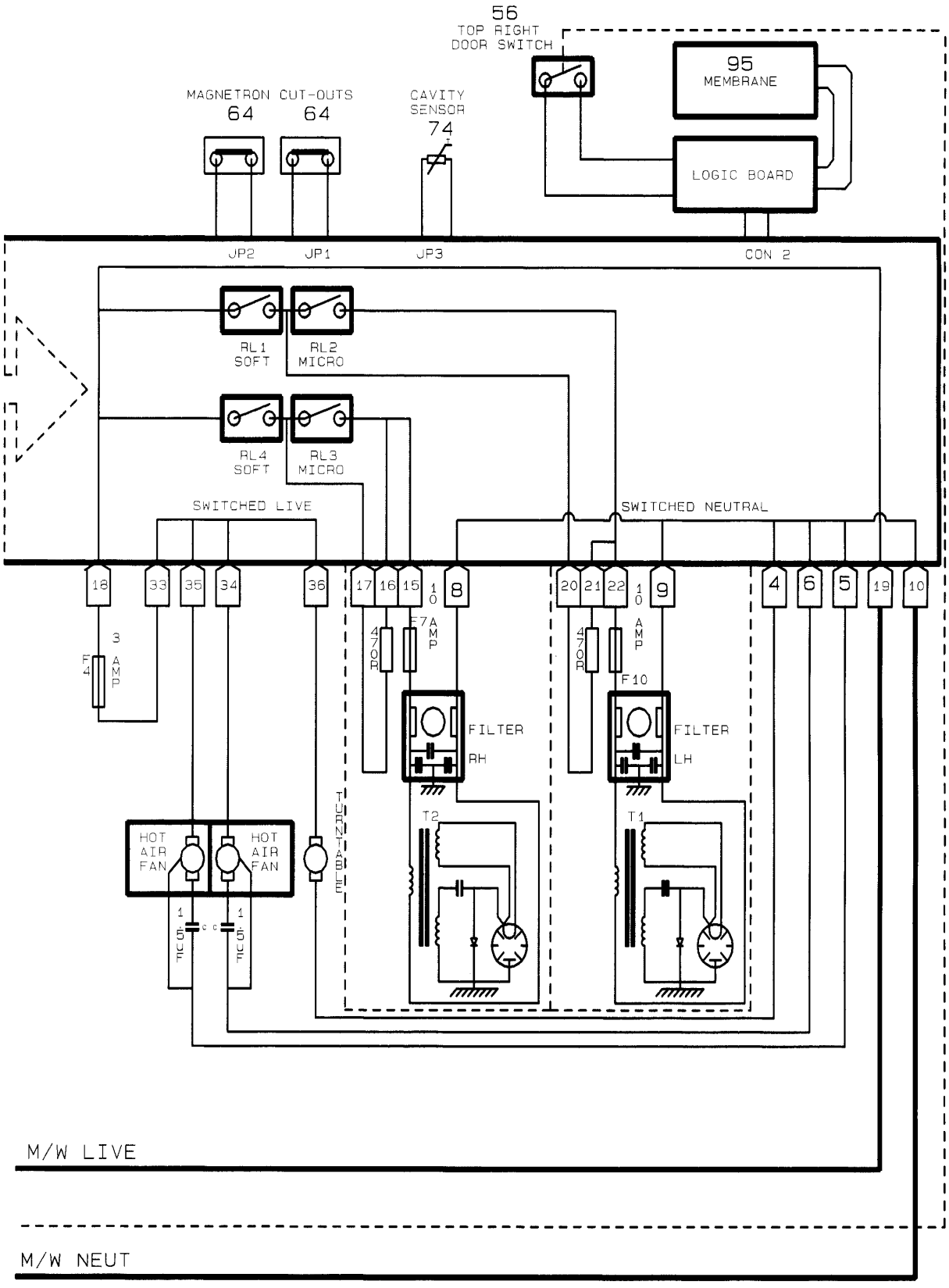



10 9 8 7 6 5 4 3 2 1
50% 100% 75% 25%
Cancel 9 0 7 Program 8
6 3 5 1 4 2
300° 200° 275° Temp 0° 250° 150°
CONFIGURATION DIAGRAM
NOTE – PINS 1–4 UPPER LAYER & 5–10 LOWER LAYER

Circuit Diagram: Part 1



Circuit Diagram: Part 2



40H0153 PART 2 OF 2

Parts Matrix

1	Magnetron cooling fan	310110
2	Magnetron 2M121	30Z0851
2A	Self Tap Screw	31Z3133
3	Hot air fan	30Z1131
4	Transformer	30Z0931
5	Axial fan	30Z0941
6	Capacitor 0.6uf	30Z0385
7	Diode PCB assembly	11M0325
8	Door switch assembly	11H0008
8A	Microswitch	30Z0240
9A	Fuse 3 Amp	30Z0940
9B	Fuse Holder	30Z0231
10A	Fuse 1 Amp	30Z0957
10B	Fuse Holder	30Z0231
11A	Fuse 10 Amp	30Z0217
11B	Fuse Holder	30Z0231
12	Nomex	32Z0121
13A	Fuse 3 Amp	30Z0940
13B	In-line Fuse Holder	31Z1191
14	Fan start Capacitor	
15	Mains Filter	30Z0997
16	Temperature sensor	30Z1130
17A	Fuse 1 Amp	30Z0957
17B	Fuse Holder	30Z0231
18A	Fuse 1 Amp	30Z0957
18B	Fuse Holder	30Z0231
19A	Fuse 10 Amp	30Z0217
19B	Fuse Holder	30Z0957
20A	Fuse 13 Amp	30Z0168
20B	Fuse Holder	30Z0231
21	Turntable motor	RMC5055EX
22A	Fuse 13 Amp	30Z0168
22B	Fuse Holder	30Z0231
23	Interlock Contactor	340504
24A	Fuse 25 Amp	31Z0473
24B	Fuse Holder	31Z0474

25	Heater Contactor	340504
26	Overheat Safety Stat	30Z1024
27	Black Handle	RBR12852
28	Door Frame	40H0158
29	Door Cover Outer Skin	40H0080
30	Insulation Panel	40H0081
31	Door Reinforcement	RMC70722
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43A	Logic Assembly*****	11H0042
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45A	Relay (PCB) Board*****	11H0043
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47	Mains Terminal Block	31Z0477
48	Cable Gland	31Z1070
48A	Gland Nut	31Z1082
49	Mains Cable 4 Core	31Z0480
50	Mains Cable 3 Core	31Z0472
51	Gearbox	11H0049
52	Temp. Sensor Pocket	40H0142
53	3kW Heater element	40H0009
54	2kW Heater	30Z1023
55	Grease Filter	11H0044
56	Sealing Plate	11H0050

* Models with Serial No.s prefix 'PEV____' only

Reply Form: Manual corrections and modifications

Whilst every effort has been made to ensure that the information contained in this manual is accurate and complete, if you believe that an error has been made, or if you have any suggestions for how the manual could be improved, please fill in and return this form. A review of any forms returned will be made on a regular basis, and the manual will be updated if required.

Name	
Address	
Page on which error occurs (if applicable) - Evolution:	
Description of error	
Suggestion for improvement to manual	
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